

FIG.1

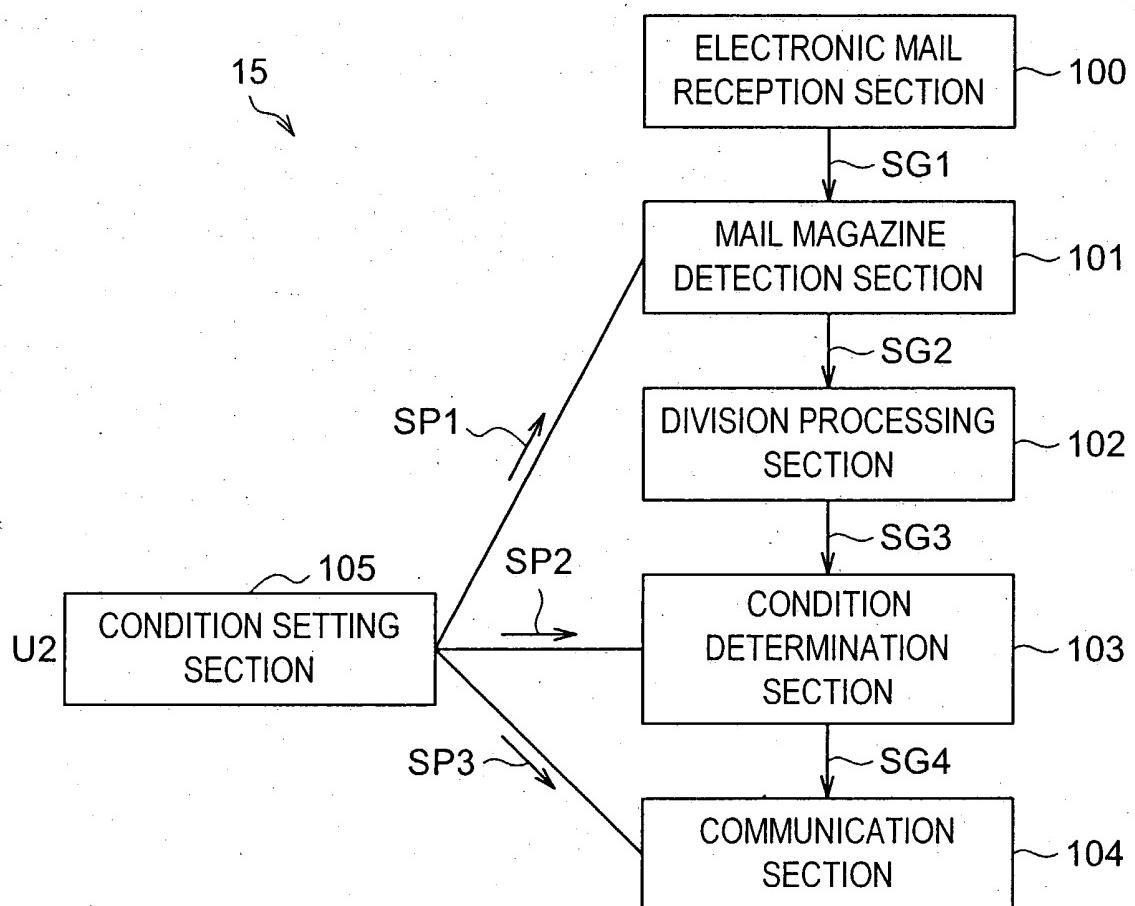


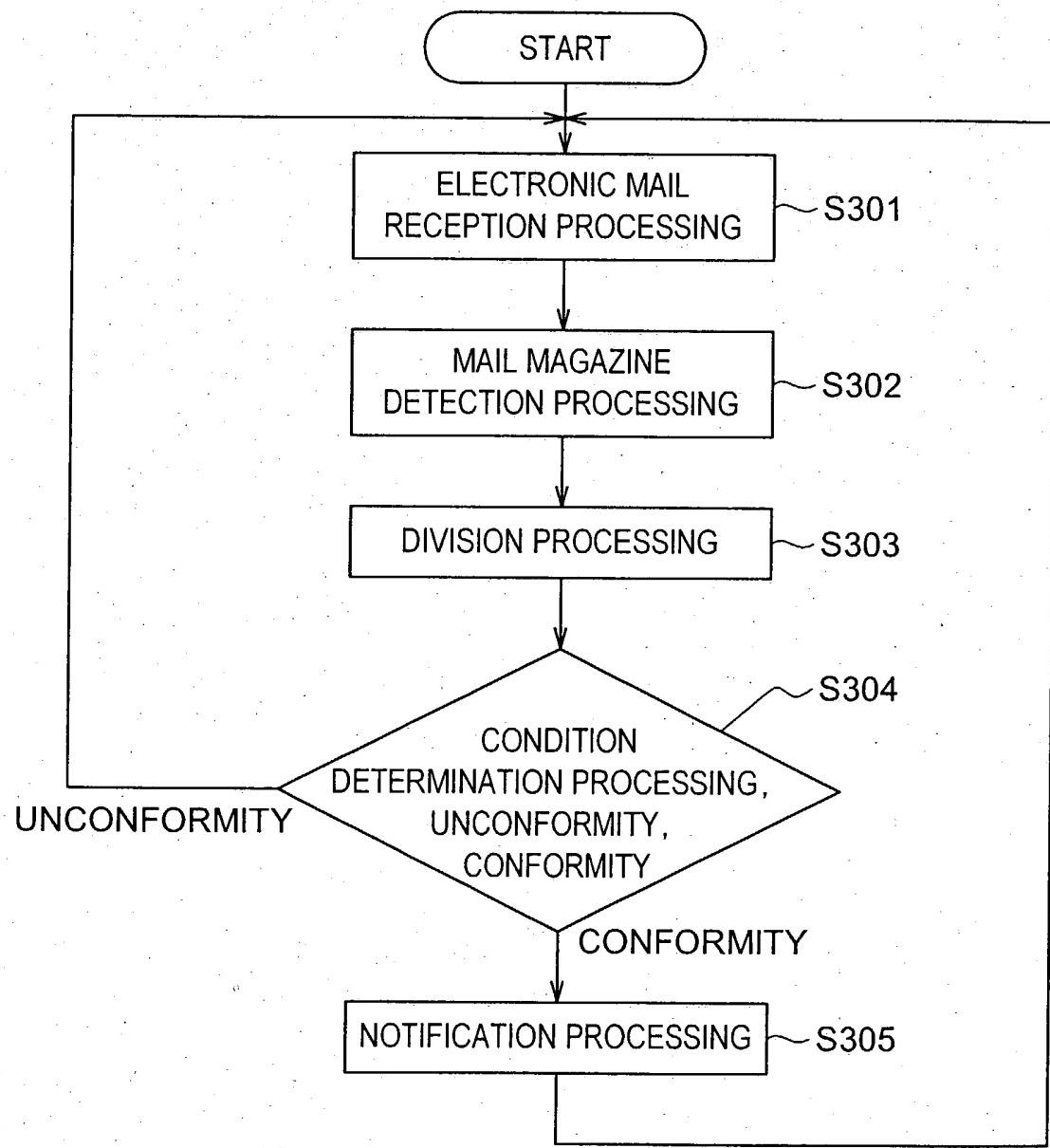
FIG.2

DL ~ [LD1 ~ [LD1 ~ [○○ Company made $\Delta\Delta$ public.
○○ Company made new product $\Delta\Delta$ public on $O(month) \times (day)$.
Price ranges from 2,500 to 10,000 yen. Sales starts on $O(month) \times (day)$
*(day) in nationwide electric home appliances mass merchandisers.
<http://www.abc.def.jp/message1.htm>
AB1 ~ [AB1 ~ []
IT1 ~ [IT1 ~ []
UR1 ~ [UR1 ~ []

DL ~ [LD2 ~ [LD2 ~ [Merger of $\times\times$ Bank with $\Delta\Delta$ Bank
It was announced on $\Delta(month) \times (day)$ that $\times\times$ Bank merges with
 $\Delta\Delta$ Bank. The name of the new bank is $\times\times\Delta\Delta$ Bank. By this
merger, $\times\times\Delta\Delta$ Bank ranks 6th in total deposit.
<http://www.abc.def.jp/message2.htm>
AB2 ~ [AB2 ~ []
IT2 ~ [IT2 ~ []
UR2 ~ [UR2 ~ []

DL ~ [LD3 ~ [LD3 ~ [$\Delta\Delta$ Institute, new information related company, starts
 $\Delta\Delta$ Institute (president $\times\times\times$), a new company invested 100% by
 O Company starts operation on $\Delta(month) \times (day)$.
<http://www.abc.def.jp/message3.htm>
AB3 ~ [AB3 ~ []
IT3 ~ [IT3 ~ []
UR3 ~ [UR3 ~ []

FIG.3



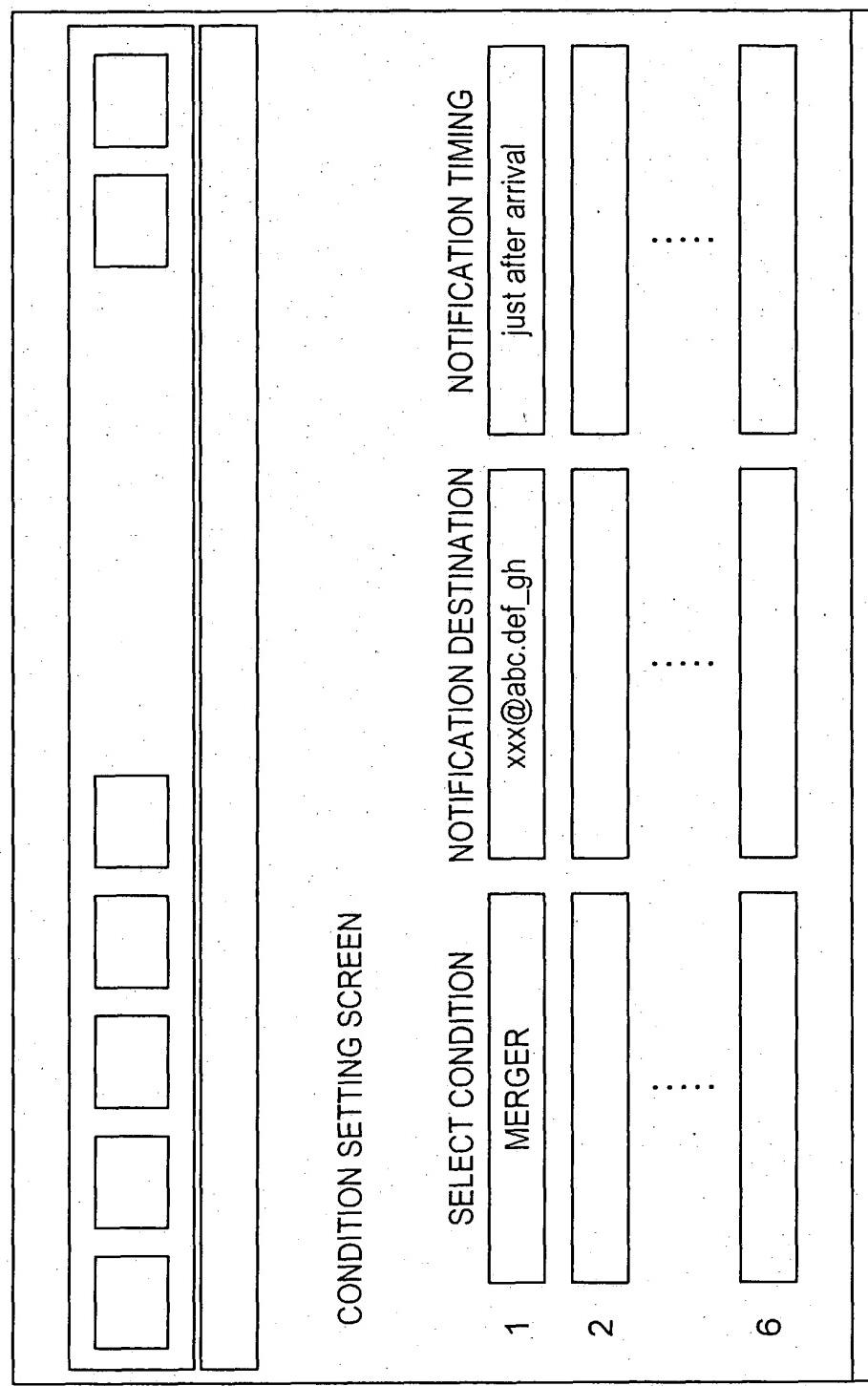


FIG.4

FIG.5A

○○ Company made △△ public.
○○ Company made new product △△ public on ○(month) × (day).
Price ranges from 2,500 to 10,000 yen. Sales starts on ○(month)
*(day) in nationwide electric home appliances mass merchandisers.
<http://www.abc.def.jp/message1.htm>

IT1

FIG.5B

Merger of × × Bank with △△ Bank
It was announced on △(month) × (day) that × × Bank merges with
△△ Bank. The name of the new bank is × × △△ Bank. By this
merger, × × △△ Bank ranks 6th in total deposit.
<http://www.abc.def.jp/message2.htm>

IT2

FIG.5C

△△ Institute, new information related company, starts
△△ Institute (president × × × ×), a new company invested 100% by
○ Company starts operation on △(month) × (day).
<http://www.abc.def.jp/message3.htm>

IT3

FIG.6A

key	att.	ARTICLE ID
△△	PRODUCT NAME	001
△△ COMPANY	COMPANY NAME	001
⋮	⋮	⋮
△△ BANK	BANK NAME	002
△△ BANK	ARTICLE ID	002
⋮	⋮	⋮
⋮	⋮	⋮

KEYWORD TABLE

KT1

FIG.6B

key	USER IDENTIFICATION INFORMATION	ELECTRONIC MAIL IDENTIFICATION INFORMATION
user2		020514-001-0001
user2		020515-001-0002
⋮	⋮	⋮
user3		020516-001-0001
⋮	⋮	⋮
⋮	⋮	⋮

USER TABLE

UT1

31759-190419
 INFORMATION PROCESSING SYSTEM
 AND INFORMATION PROCESSING
 METHOD
 Sheet 6 of 15

6/15

FIG.6C

ARTICLE ID	TITLE	RESIDENCE SUMMARY	ELECTRONIC MAIL IDENTIFICATION INFORMATION
001	OO COMPANY	http://www ... On O(month) × (day), OO Company ...	020514-001-0001
002	xx BANK	http://www ... On Δ(month) × (day), xx Bank and ΔΔ Bank ...	020514-001-0001
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮

DIVISION INFORMATION TABLE

ST1

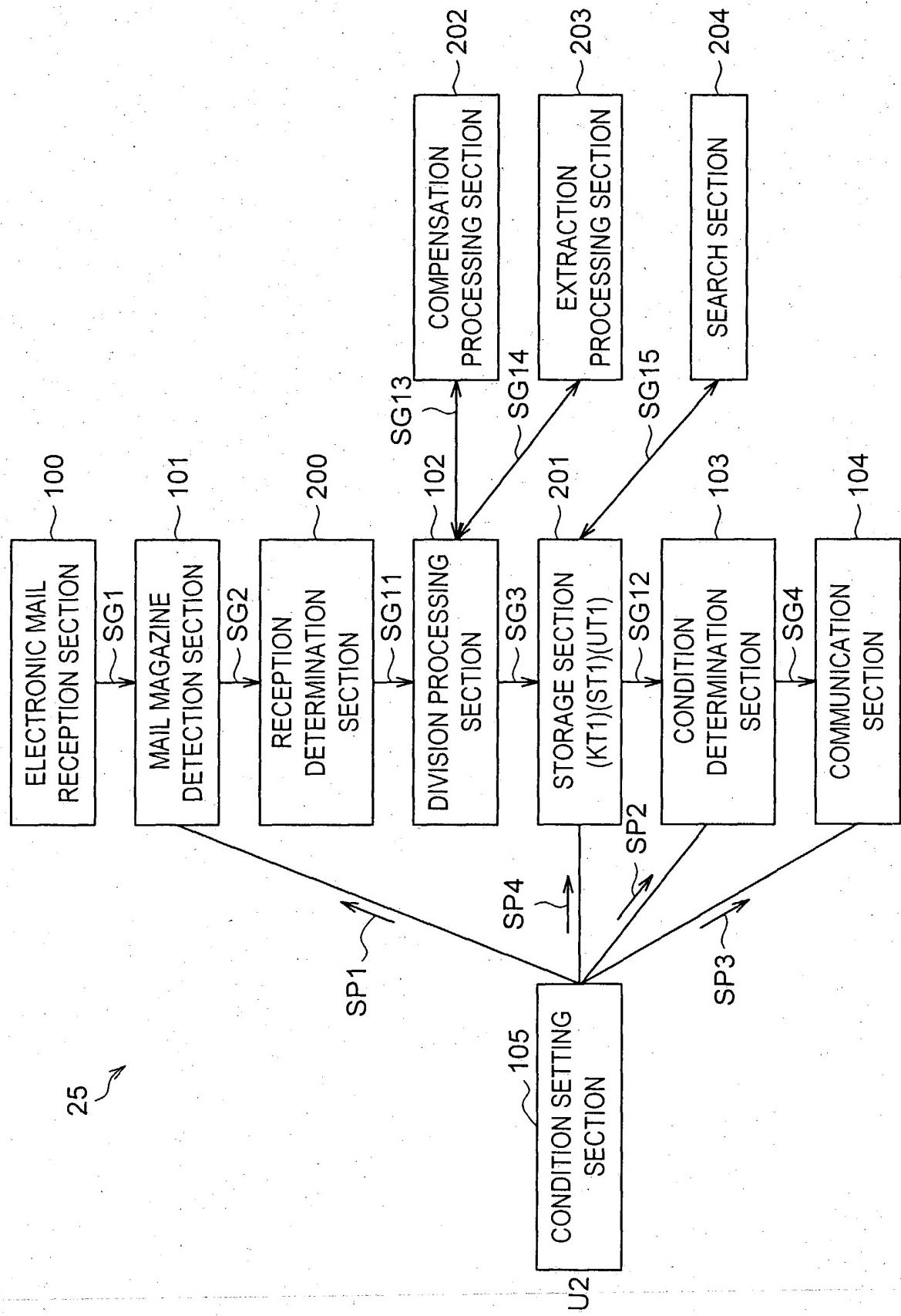
7/15

FIG.7

IT11L

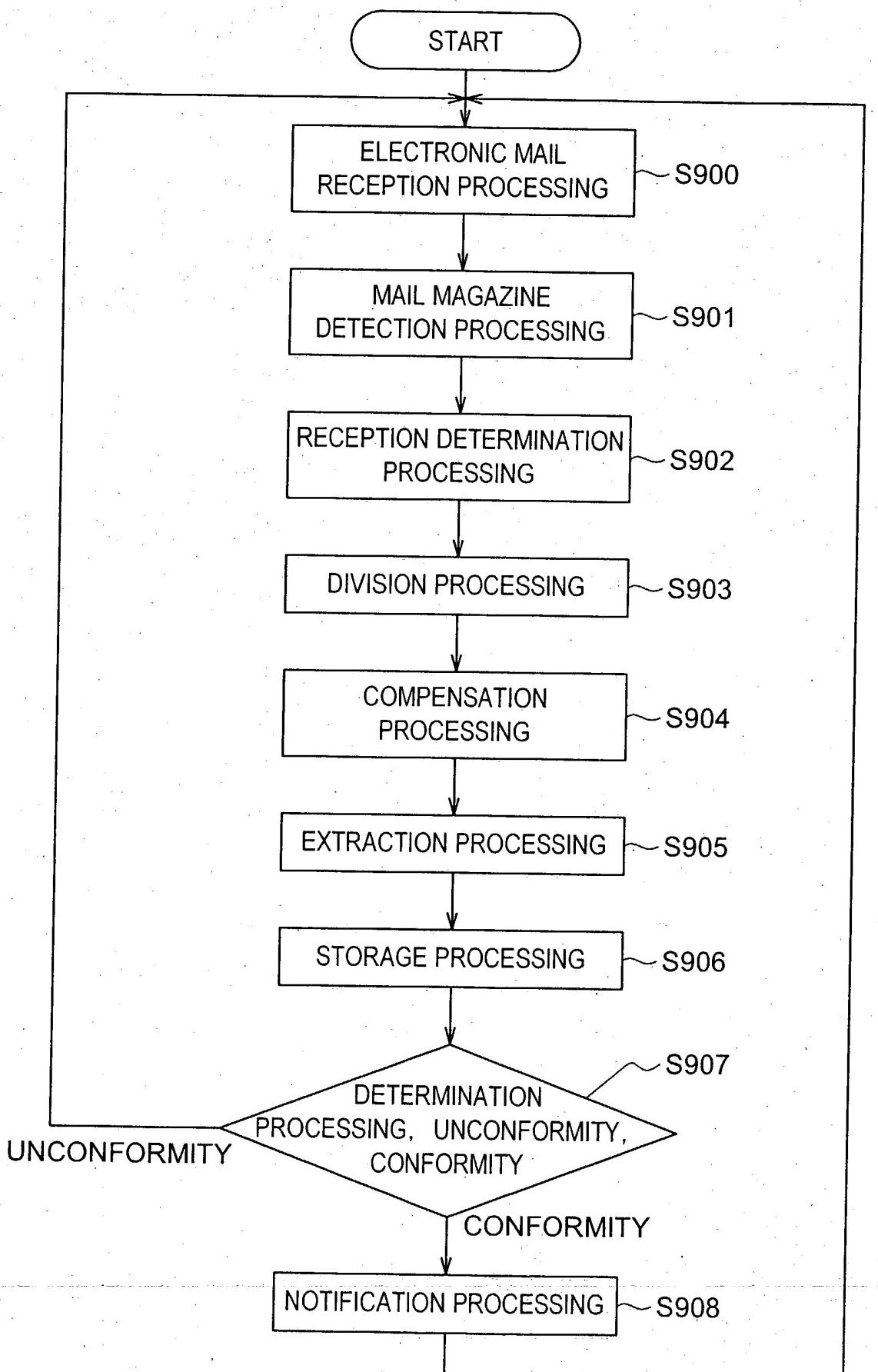
```
<information>
<title>○○ Company made △△ public </title>
<residence>http://abc.def.jp/messare1.htm</ residence>
<summary><Key att='date'> on ○(month) × (day)</Key><Key
att='company name'> ○○ Company</Key>made new product <Key
att='product name'> △△</Key><key att='PR' > public</Key>.
Price<Key att='price'> ranges from 2,500 to 10,000 yen</Key>
<key att='PR' >Sales starts</Key> <Key att='date'> on ○(month)
*(day) </Key><Key att='area'> in nationwide </Key><Key att='place'>
electric home appliances mass merchandisers</Key>. </summary>
<Key att='date'>on ○(month) × (day)</Key>
<Key att='company name'>○○company</Key>
<Key att='product name'>△△</Key>
<Key att='PR'>public </Key>
<Key att='price'> ranges from 2,500 to 10,000 yen </Key>
<Key att='area'> nationwide</Key>
<Key att='place'> electric home appliances mass
merchandisers</Key>
<Key att='date'> on ○(month) *(day)</Key>
<Key att='PR'> Sales starts</Key>
</information>
```

8/15



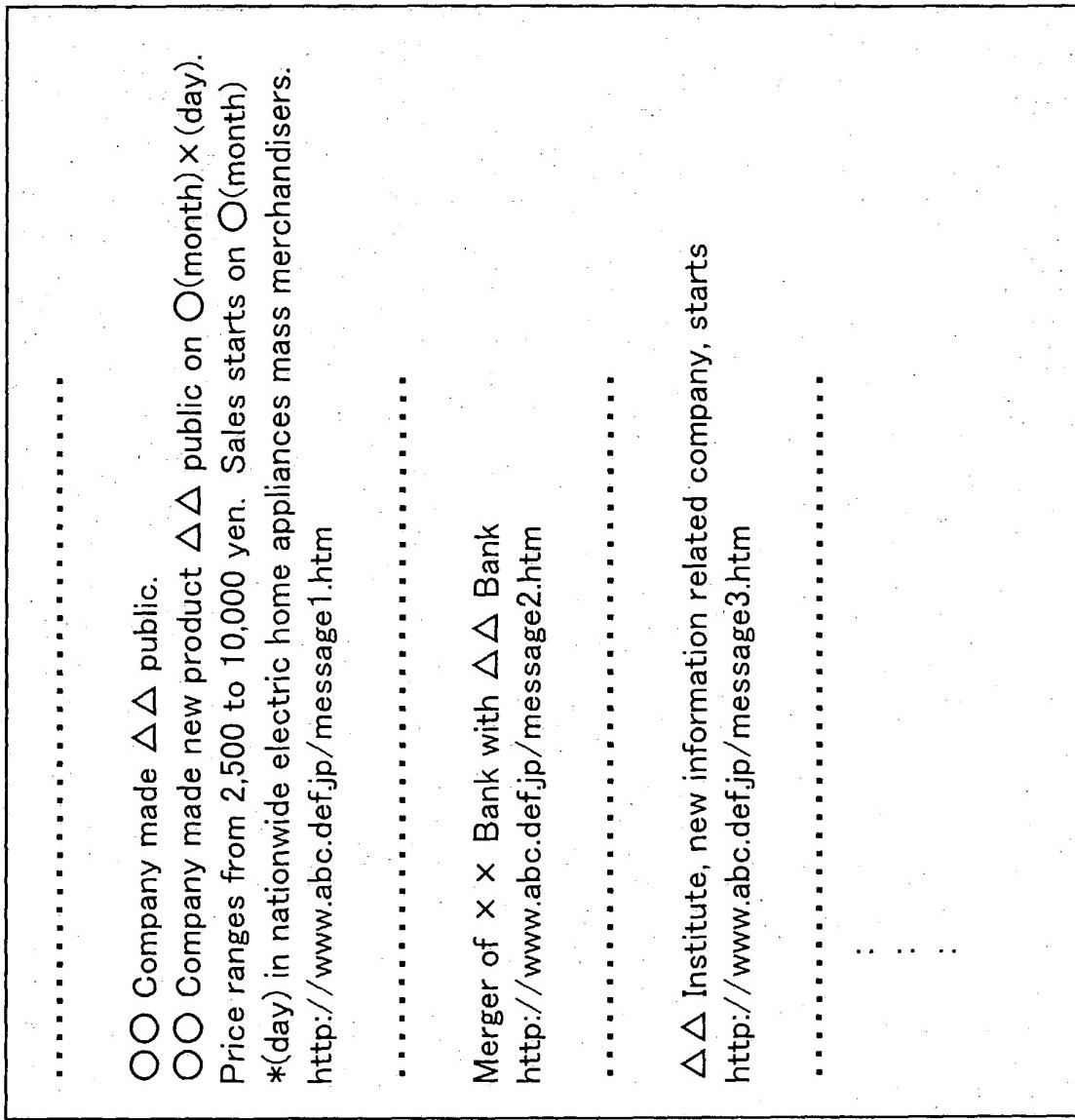
8
E

FIG.9



10/15

FIG.10



LD11 {
AB11 {
UR11 {

IT12 {
LD12 {
UR12 {

IT13 {
LD13 {
UR13 {

FIG.11A

○○ Company made △△ public.
○○ Company made new product △△ public on ○(month) × (day).
Price ranges from 2,500 to 10,000 yen. Sales starts on ○(month)
*(day) in nationwide electric home appliances mass merchandisers.
<http://www.abc.def.jp/message1.htm>

IT11

FIG.11B

Merger of × × Bank with △△ Bank
<http://www.abc.def.jp/message2.htm>

IT12

FIG.11C

△△ Institute, new information related company, starts
<http://www.abc.def.jp/message3.htm>

IT13

12/15

FIG.12

```
<information>
<title>○○ company made △△ public</title>
<residence>http://www.abc.def.jp/message1.htm</residence>
<summary>on ○(month) × (day),○○ company made new product
△△ public. Price ranges from 2,500 to 10,000 yen. Sales starts on
○(month) *(day) in nationwide electric home appliances mass
merchandisers.</summary>
</information>
```

IT11L

FIG.13

```
<information>
<title> Merger of × × Bank with △△ Bank </ title>
<residence>http://www.abc.def.jp/message1.htm </residence>
<summary></ summary>
</information>
```

IT12L

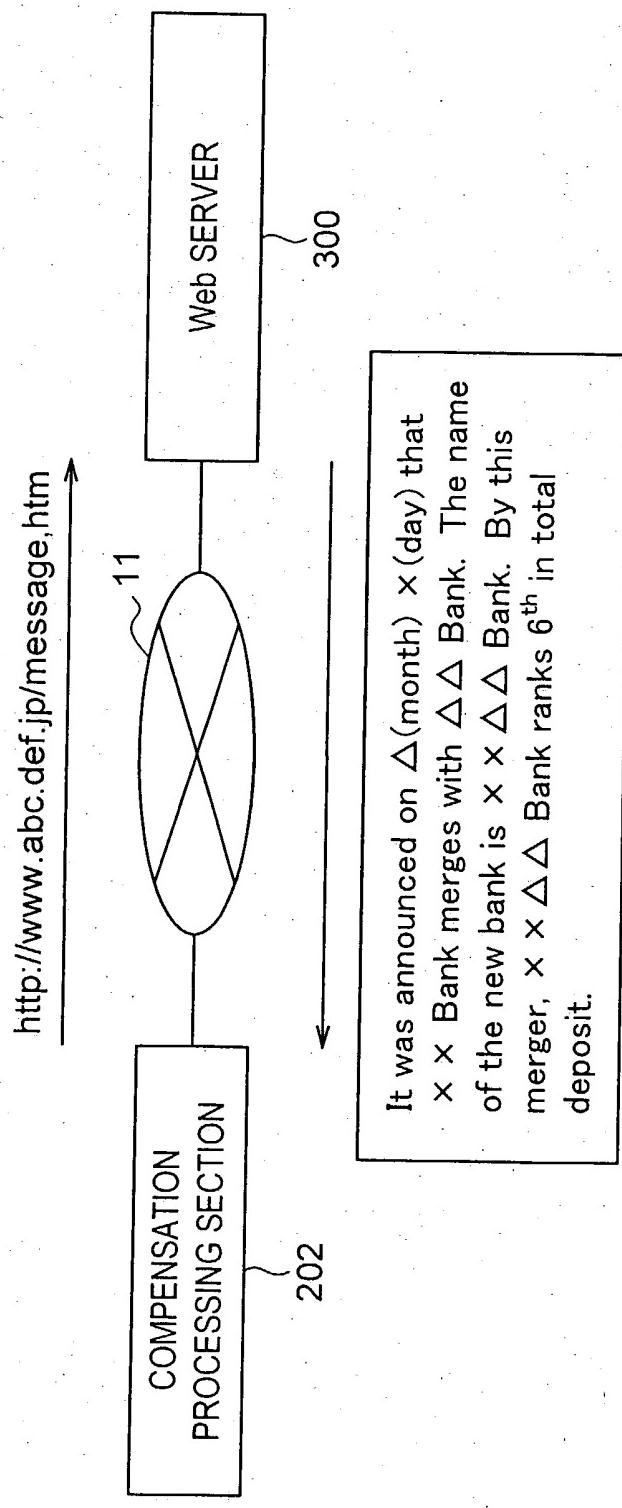


FIG.14

FIG.15

```
<information>
<title> Merger of × × Bank with ΔΔ Bank </ title>
<residence>http://www.abc.def.jp/message1.htm </residence>
<summary> It was announced on Δ(month) ×(day) that × × Bank
merges with ΔΔ Bank. The name of the new bank is × × ΔΔ Bank.
By this merger, × × ΔΔ Bank ranks 6th in total deposit.</ summary>
</information>
```

IT12LD

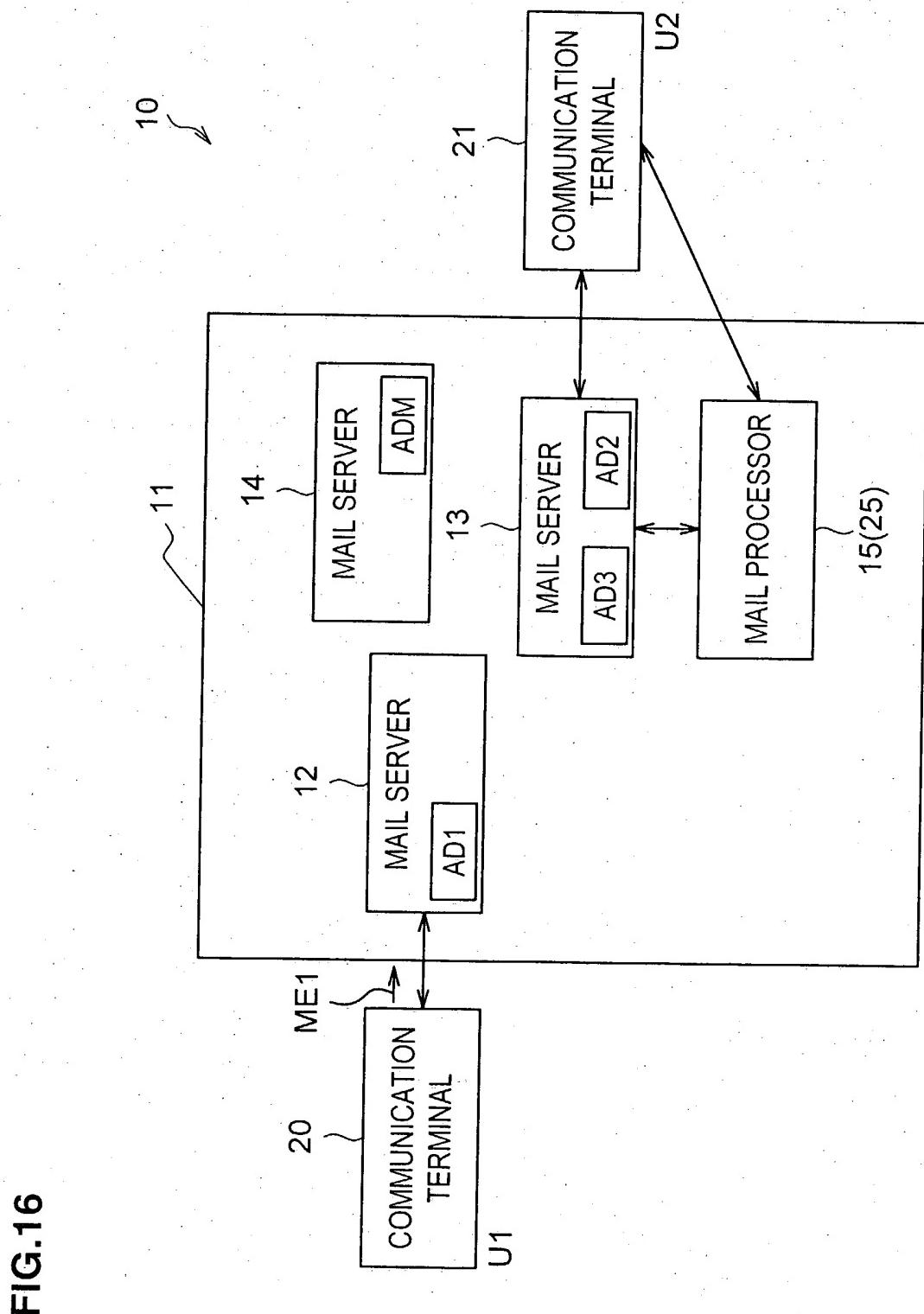


FIG.16